

4-12. Vision

The causes of medical unfitness for flying duty Classes 1/1A/2/2F/3/4 are the following:

a. *Classes 1/1A.* Any disqualifying condition must be referred to optometry or ophthalmology for verification.

(1) *Distant visual acuity.* Uncorrected distant visual acuity worse than 20/50 in each eye. If the distant visual acuities 20/50 or better in either eye, each eye must be correctable to 20/20 with no more than 1 error per 5 presentations of 20/20 letters, in any combination, on either the Armed Forces Vision Tester (AFVT) or any projected Snellen chart set at 20 feet. (See ATB, Distant Visual Acuity Testing and APL, Decreased Visual Acuity.)

(2) *Near visual acuity.* Uncorrected near visual acuity worse than 20/20 in each eye; with no more than 1 error per 5 presentations of 20/20 letters, in any combination, on the AFVT or any Snellen near visual acuity card. (See ATB, Near Visual Acuity Testing and APL, Decreased Visual Acuity.)

(3) *Cycloplegic refractive error using the method in ATB, Cycloplegic Refraction.*

(a) Hyperopia greater than +3.00 diopters of sphere in any meridian by transposition in either eye. (Spherical equivalent method does not apply.)

(b) Myopia greater than -1.50 diopters of sphere in any meridian by transposition in either eye. (Spherical Equivalent method does not apply.)

(c) Astigmatism greater than ± 1.00 diopter of cylinder in either eye.

(4) *Ocular motility.* (See ATB, Ocular Motility Testing; APL, Excessive Phorias; and APL, Convergence Insufficiency.)

(a) Any degree of tropia detected in ocular motion on the Cover-Uncover Test (Unilateral Cover Test or Tropia Test).

(b) Esophoria greater than 8 prism diopters.

(c) Exophoria greater than 8 prism diopters.

(d) Hyperphoria greater than 1 prism diopter.

(e) Near point of convergence (NPC) greater than 100 mm.

(5) *Color vision.* (See ATB, Color Vision Testing and APL, Color Vision Abnormalities.)

(a) Five or more errors in reading the 14 test plates of the Pseudoisochromatic Plate (PIP) Set; or

(b) Any error in reading the nine test light pairs of the Farnsworth Lantern (FALANT) or the OPTEC 900 Color Vision Tester.

(6) *Binocular depth perception (stereo acuity) worse than 40 seconds of arc.* (See ATB, Depth Perception Testing and APL, Defective Depth Perception.)

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(a) Any error in Group B of the AFVT (40 seconds of arc); or

(b) Any error in levels 1 through 7 of the 10 levels of three circles each in the Random Dot (RANDOT) Circles

Test; or

(c) Any error in levels 1 through 9 of the 9 levels of four circles each in the Titmus Graded Circles Stereo acuity Test.

(7) *Field of vision.* Any scotoma, other than physiologic blind spot. (See ATB, Field of Vision Testing.)

(8) *Night vision.* As noted by history. (There is currently no definitive test or score.) Any ocular abnormalities resulting in decreased night vision must be referred to ophthalmology for confirmation. (See ATB, Night Vision.)

b. *Classes 2/2F/3/4.* Same as Classes 1/1A, except as listed below:

(1) *Distant and near visual acuity.* Uncorrected acuity worse than 20/400 in either eye at distance or near, or vision not correctable to 20/20 in each eye as outlined in paragraph 4-12a(1) and (2).

(2) *Manifest refractive error.* Refractive error of such magnitude that the individual cannot be fit with aviation spectacles.

(3) *NPC of greater than 100 mm.* This is not disqualifying but must be referred to Ophthalmology or Optometry for evaluation. (See ATB, Ocular Motility Testing; APL, Excessive Phorias; and APL, Convergence Insufficiency.)